

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/603,138
Source:	OIPE,
Date Processed by STIC:	17/30/2003
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

ERROR DETECTED	suggested correction serial number: 10/603, 138	
attń: new rules cas	ses: Please disregard english "alpha" headers, which yere inserted by Pto Sof	TWARE
Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers: use space characters, instead.	
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5Variable Length	Sequence(s)contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be finissing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or United by sequences.	
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped	•
8 Skipped Sequences (NEW RULES)	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences. Sequence(s) 46 missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220> <223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10Invalid <213> Response	Per 1.823 of Sequence Roles, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220><223> section if required when <213> response is Unknown or significant sequence.	• • •
11Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy lile to floppy disk.	
•		
13Misuse of n	n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.	

AMC/MH - Biotechnology Systems Branch - 08/21/2001



OIPE

RAW SEQUENCE LISTING

DATE: 07/31/2003

PATENT APPLICATION: US/10/603,138

TIME: 07:45:01

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\07312003\J603138.raw

```
pr 1-5
       3 <110> APPLICANT: Cathy Lofton-Day
                Andrew Sledziewski
                Jorn Lewin
                Fabian Model
                Tamas Rujan
       9 <120> TITLE OF INVENTION: Methods and nucleic acids for analyses of colorectal cell
proliferative
      10
                disorders.
C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/603,138 result of C--> 14 <141> CURRENT FILING DATE: 2003-06-23 E--> 14 <160> NUMBER OF SEQ ID NOS: (8475) 8865 (many deplicated sequences) (see p.5)
      12 <130> FILE REFERENCE: 47675-47
                                                                             Does Not Comply
ERRORED SEQUENCES
                                                                         Corrected Diskette Needer
E--> 31223 <210> SEQ ID NO: 1186 (SEE \rho. 2)
E' > 35524 <210> SEQ ID NO: 1578
                                                                      delete all this
      111365 <210> SEO ID NO: 8467
      111366 211> LENGTH: 0
      11136/ <212> TYPE: DNA
      1113/68 <213> ORGANISM: Artificial Sequence
      111870 <220> FEATURE:
                (if the above sequence is intentionally skepped, so delete
please use format shown in item 8 of Evrol
Summary Sheet)
      111371 <223 > OTHER INFORMATION: chemically treated genomic DNA (Homo sapiens)
      111373 <400> SEQUENCE: 8467
E--> 111375
```

	<210> 1577
	<211> 22
	<212> DNA
	<213> Artificial Sequence
	1 1 2237 line (do not show any response
	<212> DNA <213> Artificial Sequence <220> bisulfite treated most this As L2237 line (do Not Showary response concluded acid for analysis of methylation status of SEQ ID NO: 27 <400> 1577
	<223> nucleic acid for analysis of methylation status of SEQ ID NO: 27
	11007 2011
	TATACGCGAT TTACGGTAGA GG 22
	<210 1186 deplieate (already shown in file) <211 22
	<210 1186 duniveale (auto)
/	<211> 22
	<212> DNA
	<213> Artificial Sequence
	same enn
	<220x bisuffite treated
	<223> nucleic acid for analysis of methylation status of SEQ ID NO: 4
	<400> 1186
	AGTTTCGCGG TTTATAGAGG TT 22
	<pre> <array c<="" control="" of="" th="" the=""></array></pre>
	legate (allegay)
	<210> 1187) (CO) (CO) (CO) (CO) (CO) (CO) (CO) (CO
ı	(many sequence duplicated) after 1186 above
\	mary seguer -
	- 1186 abov
•	agu 110°

a vii

i

This error begins with Sequence 1160 (in many subsequent <210> 1160 <211> 18 <212> DNA <213> Artificial Sequence <220> (bisulfite treated) mor to 22237 line do not Show any response to <223> nucleic acid for analysis of methylation status of SEQ ID NO 16. is a "header" use orly lower-case letters for 18

nucleotides, when Sequence Listing
is in new Sequence Rules format. GGTTTCGGTT CGAGGTTC (Please edit all seguenn showing upper-case letters for rueleotides)

10/603,138

<210> 536

<211> 24

<212> DNA

<213> Artificial Sequence

<220>
<223> Detection primer for what? (This is a sample of global even)

FYF

Use of n and/or Xaa has been detected in the Sequence Listing, Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 07/31/2003 PATENT APPLICATION: US/10/603,138 TIME: 07:45:10

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\07312003\J603138.raw

```
L:14 M:270 C: Current Application Number differs, Replaced Current Application No
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:2936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:2100
L:11560 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404 after pos.:2100
L:11580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:405 after pos.:60
L:18394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:520 after pos.:2100
L:18414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:521 after pos.:60
L:26628 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26631 M:112 C: (48) String data converted to lower case,
L:26639 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26642 M:112 C: (48) String data converted to lower case,
L:26650 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26653 M:112 C: (48) String data converted to lower case,
L:26661 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26664 M:112 C: (48) String data converted to lower case,
L:26672 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26675 M:112 C: (48) String data converted to lower case,
L:26683 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26686 M:112 C: (48) String data converted to lower case,
L:26694 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26697 M:112 C: (48) String data converted to lower case,
L:26705 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26708 M:112 C: (48) String data converted to lower case,
L:26716 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26719 M:112 C: (48) String data converted to lower case,
L:26727 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26730 M:112 C: (48) String data converted to lower case,
L:26738 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26741 M:112 C: (48) String data converted to lower case,
L:26749 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26752 M:112 C: (48) String data converted to lower case,
L:26760 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26763 M:112 C: (48) String data converted to lower case,
L:26771 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26774 M:112 C: (48) String data converted to lower case,
L:26782 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26785 \ M:112 \ C: (48) String data converted to lower case,
L:26793 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26796 M:112 C: (48) String data converted to lower case,
L:26804 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26807 M:112 C: (48) String data converted to lower case,
L:26815 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26818 M:112 C: (48) String data converted to lower case,
L:26826 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26829 M:112 C: (48) String data converted to lower case,
L:26837 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26840 M:112 C: (48) String data converted to lower case,
L:26848 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
```

VERIFICATION SUMMARYDATE: 07/31/2003PATENT APPLICATION: US/10/603,138TIME: 07:45:10

Input Set: N:\DA\pto.da.txt

Output Set: N:\CRF4\07312003\J603138.raw

```
L:26851 M:112 C: (48) String data converted to lower case,
L:26859 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26862 M:112 C: (48) String data converted to lower case,
L:26870 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26873 M:112 C: (48) String data converted to lower case,
L:26881 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26884 M:112 C: (48) String data converted to lower case,
L:26892 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26895 M:112 C: (48) String data converted to lower case,
L:26903 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26906 M:112 C: (48) String data converted to lower case,
L:26915 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26918 M:112 C: (48) String data converted to lower case,
L:26926 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26929 M:112 C: (48) String data converted to lower case,
L:26937 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26940 M:112 C: (48) String data converted to lower case,
L:26948 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26951 M:112 C: (48) String data converted to lower case,
L:26959 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26962 M:112 C: (48) String data converted to lower case,
L:26970 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26973 M:112 C: (48) String data converted to lower case,
L:26981 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26984 M:112 C: (48) String data converted to lower case,
L:26992 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:26995 M:112 C: (48) String data converted to lower case,
L:27003 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27006 M:112 C: (48) String data converted to lower case,
L:27014 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27017 M:112 C: (48) String data converted to lower case,
L:27025 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27028 M:112 C: (48) String data converted to lower case,
L:27036 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27039 M:112 C: (48) String data converted to lower case,
L:27047 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27050 M:112 C: (48) String data converted to lower case,
L:27058 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27061 M:112 C: (48) String data converted to lower case,
L:27069 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27072 M:112 C: (48) String data converted to lower case,
L:27080 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27083 M:112 C: (48) String data converted to lower case,
L:27091 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27094 M:112 C: (48) String data converted to lower case,
L:27102 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27105 M:112 C: (48) String data converted to lower case,
L:27113 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27116 M:112 C: (48) String data converted to lower case,
```

VERIFICATION SUMMARY

L:111375 M:301 E: (44) No Sequence Data was Shown, SEQ ID:8467

PATENT APPLICATION: US/10/603,138

DATE: 07/31/2003 TIME: 07:45:10

Input Set : N:\DA\pto.da.txt

Output Set: N:\CRF4\07312003\J603138.raw

L:27124 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27127 M:112 C: (48) String data converted to lower case,
L:27135 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27138 M:112 C: (48) String data converted to lower case,
L:27146 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27149 M:112 C: (48) String data converted to lower case,
L:27157 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27160 M:112 C: (48) String data converted to lower case,
L:27168 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
L:27171 M:112 C: (48) String data converted to lower case,
L:31223 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO: 1186
L:35524 M:214 E: (33) Seq.# missing, SEQ ID NO:1577

L:14 M:203 E: No. of Seq. differs, <160> Number Of Sequences:Input (8475) Counted (8865)